

SYSTEM: ELECTRIC OVER PNEUMATIC

APPLICATION: Onshore and offshore surface wells

The Anchor™ EP Emergency shut down system is a complete package dedicated to the efficient operation of your wells. With an industry-proven gate valve and carefully matched pneumatic actuator tied to an integrated pneumatic power unit and dedicated controller, this SCADA ready system is a self-contained solution that doesn't require line pressure to operate. When tied to the optional Anchor telemetry package or a SCADA system, you can monitor and control your ESD system from your desktop. From scheduling valve cycles to verify system functionality, to targeting service crews to specific problem wells, the Anchor EP delivers lower lease operating expense and higher well uptime, with a lower environmental footprint. Line pressure is monitored using highly accurate transducers and a microprocessor controls the pneumatic actuator, automatically compensating for diurnal temperature changes. The pneumatic system is completely self-contained and is constantly monitored by the system to ensure that the ESD will protect your asset when you need it.

The installation is simple, with integration capabilities for existing SCADA systems, or fully independent command and control with a cloud based management console.

The system is flexible to allow the well to be shut in in the event of fire, H2S, high tank, low pressure, or any event that involves a standard sensor. With the Anchor telemetry package, whenever an event occurs, it informs the monitoring system and the operations center is alerted, giving you complete confidence that your well is protected and you know what is happening, when it happens.



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Basic Anchor EP system specifications:

Gate Value		1200 Series Pneumatic	1500 Series Pneumatic	2000 Series Pneumatic
2-1/16"	3,000	✓		
2-1/16"	5,000	✓		
2-1/16"	10,000		✓	
2-9/16"	3,000	✓		
2-9/16"	5,000	✓		
2-9/16"	10,000		✓	✓
2-9/16"	15,000			✓
3-1/8"	3,000	✓	✓	
3-1/8"	5,000		✓	
3-1/16"	10,000			✓
3-1/16"	15,000			✓
4-1/16"	3,000		✓	
4-1/16"	5,000		✓	
4-1/16"	10,000			✓
4-1/16"	15,000			
5-1/8"	3,000			✓
5-1/8"	5,000			✓

Other configurations are available.

Contact Safoco Controls for your specific needs.

Operating Temperature: -20°F (-28°C) to 150°F (65°C)

Measurement Accuracy: ± 0.5%

Response Time to Close: 0.02 Seconds (@20°C)

Close Time: Dependent on valve size, line pressure and temperature, typically less than 0.5 seconds

¹ Available when the system is installed with optional Anchor™ telemetry package or appropriate SCADA system

² Remote power options are optional system additions

Features:

- Proven gate valve sealing technology for applications up to 15 Kpsi (103 Mpa)
- Safoco Series pneumatic Model E diaphragm actuator
- Custom low power microprocessor controller
- Transducer pressure measurement
- Self-contained pneumatic system
- Temperature rated from -20°F (-28°C) to 150°F (65°C)
- SCADA integration ready
Optional Integrated power (renewable local source)
- Optional remote communications and control (Satellite / Radio / Cell)
- Automated condition based monitoring and diagnostics¹
- Integration with cloud based management tools¹
- Constant contact with operations management¹

Benefits:

- Constant communication, know the status and pressure of your wells¹
- Remote alarm reset and control allow you to target service calls to where the problems are causing loss of production
- No infrastructure overhead, locations without a power grid or communication access are fully remote accessible^{1,2}
- Easy install and operation, little training overhead for hookup, operation and maintenance
- Scheduled valve cycles to verify operation on demand, immediate diagnostics on complete valve, actuator, power unit, battery and control system¹
- Reduced management overhead, lower Lease Operating Expense
- No release of hydrocarbon to atmosphere
- No need for nitrogen bottles to operate actuator

For more information scan below or call: 713.956.1595
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